

Date: July 7, 2015

TO: Thomas J. Bonfield, City Manager
THROUGH: W. Bowman Ferguson, Deputy City Manager
FROM: Donald F. Greeley, Director, Water Management

SUBJECT: Contract SR-61 Sanitary Sewer System Repairs, 2015

Executive Summary:

Repairing known defects within the City's sanitary sewer collection system is integral to maintaining compliance with the City's Sewer Collection Permit. On May 14th, 2015 bids were opened for Contract SR-61 Sanitary Sewer System Repairs, 2015. This project involves the repair and replacement of sanitary sewer mains and manholes throughout the City service area. Work completed during this project will be identified through maintenance and sanitary sewer system evaluation documents. One bid was received and deemed responsive. The Department recommends award of contract to Carolina Civilworks Inc. of Raleigh, NC in the amount of \$2,144,452.61.

Recommendations:

The Department of Water Management recommends that the City Council:

1. Authorize the City Manager to execute a contract with Carolina Civilworks Inc. for construction services for the SR-61 Sanitary Sewer System Repairs, 2015 Project in the amount of \$2,144,452.61; and
2. Establish a contingency fund for the contract in the amount not to exceed \$214,547.39; and
3. Authorize the City Manager to negotiate change orders for the contract provided that the cost of all change orders does not exceed \$214,547.39, and the total project cost of \$2,359,000.00.

Background:

There are over 1200 miles of sanitary sewer pipeline and over 30,000 sanitary sewer manholes that make up the City's sanitary sewer collection system. The City's Sewer Collection Permit requires the City to repair any known defects in our system. The deterioration and catastrophic failure of sanitary sewers and manholes can be attributed to one or more factors. Influencing factors can range from poor initial installation, groundwater inflow and infiltration to root intrusion, new construction, and age. Manholes are subject to the same deterioration factors that affect sewer pipe lines. Additional factors affecting the structural integrity of manholes, ultimately causing failure, include hydrogen sulfide gas buildup, surcharging, and ground settlement.

Through the use of annual inspections, maintenance records and previously contracted sanitary

sewer evaluations, the System Rehabilitation Program identifies sewer pipelines that require partial or full length pipeline replacement and manholes that require height adjustments or complete replacement due to deterioration or failure. In addition, this contract will be installing Sanitary Sewer Lift Stations bypass connection to enable stations to be taken off line for necessary maintenance and repairs.

Issues and Analysis:

The original bid opening date was on April 28th, 2015. However, there was only one bidder. Seeking to increase the number of bidders for the project, staff contacted known contractors in our area who had previously bid on similar projects and requested that they bid. The project was then re-advertised and the bid opening was conducted on May 14th, 2015.

Below is a summary of the bid received on May 14th, 2015. The bid was analyzed and deemed responsive.

Contractor	Bid
Carolina Civilworks Inc.	\$ 2,144,452.61

The Department of Water Management recommends awarding Contract SR-61 to Carolina Civilworks Inc. the lowest responsive bidder, in the amount not to exceed \$ 2,144,452.61.

Alternatives:

Many sewer pipelines and manholes have been identified as being in poor condition and need of rehabilitation. The alternatives identified are 1) to repair pipelines utilizing city crews only; or 2) to not move forward with the project.

Alternative #1 may delay the completion of pipeline repair of deteriorated sewers. This is due to the limited availability of the Water Sewer Maintenance Division because of their regular scheduled duties and emergency calls. Selecting to not perform the work as stated in Alternative #2 may lead to structural failure of the sewer outfalls possibly causing sanitary sewer overflows (SSOs) and environmental damage. Alternative #2 would put the City in violation of its sewer collection permit and potentially the City could receive Notices of Violation (NOVs) and potential fines by the State.

Financial Impacts:

Funds for this project were approved in the Capital Improvements Program Sewer Collection System Rehabilitation.

There are currently funds available for this project from 4100P002-731000-P28AG (\$2,144,452.61), 4100P002-731900-P28AG (\$214,547.39).

SDBE SUMMARY:

The Equal Opportunity/Equity Assurance Department reviewed the bid submitted by Carolina Civilworks Inc. Raleigh, North Carolina and have determined that they are in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. The goals for this project were 6% MSDBE and

3% WSDBE. Carolina Civilworks, Inc. Raleigh, NC attained goals of 6% and 3% respectively for MSDBE and WSDBE and, therefore, met the goals for this project.

SDBE REQUIREMENTS

Carolina Civilworks Inc. will subcontract to the following certified firms:

Firms	ID	City/State	Amount	% of Contract
Nehrenz Enterprises	MSDBE	Raleigh, NC	\$129,000	6%
Certified Concrete Construction, Inc.	WSDBE	Raleigh, NC	\$64,500	3%

The MSDBE and WSDBE goals were both met.

WORKFORCE STATISTICS

The workforce statistics for Carolina Civilworks Inc. are as follows:

Total Workforce	23	
Total Females	2	9%
Total Males	21	91%
Black Males	0	0%
White Males	17	74%
Other Males	4	17%
Black Females	0	0%
White Females	2	9%
Other Females	0	0%